

| <b><u>Equations</u></b>                                                                                                                                              |                                                                                                                                             |                                                                                                                                                                                                                                                                 |               |                                                                                              |                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Year 1</b>                                                                                                                                                        | <b>Year 2</b>                                                                                                                               | <b>Year 3</b>                                                                                                                                                                                                                                                   | <b>Year 4</b> | <b>Year 5</b>                                                                                | <b>Year 6</b>                                                              |
| solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = * - 9$ | recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. | <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction</p> <p>solve problems, including missing number problems, involving multiplication and division, including integer scaling</p> |               | use the properties of rectangles to deduce related facts and find missing lengths and angles | express missing number problems algebraically                              |
|                                                                                                                                                                      | recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100                                    |                                                                                                                                                                                                                                                                 |               |                                                                                              | find pairs of numbers that satisfy number sentences involving two unknowns |
| represent and use number bonds and related subtraction facts within 20                                                                                               |                                                                                                                                             |                                                                                                                                                                                                                                                                 |               |                                                                                              | enumerate all possibilities of combinations of two variables               |

| <b><u>Formulae</u></b>                                                                                                                                    |                                                                                                                   |  |                                                                                                          |  |                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                                           |                                                                                                                   |  | Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit |  | use simple formulae.<br><br>recognise when it is possible to use formulae for area and volume of shapes |
| <b><u>Sequences</u></b>                                                                                                                                   |                                                                                                                   |  |                                                                                                          |  |                                                                                                         |
| sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon, and evening | compare and sequence intervals of time.<br><br>order and arrange combinations of mathematical objects in patterns |  |                                                                                                          |  | generate and describe linear number sequences                                                           |